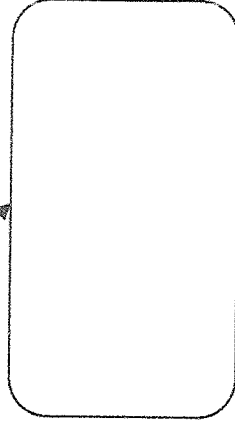
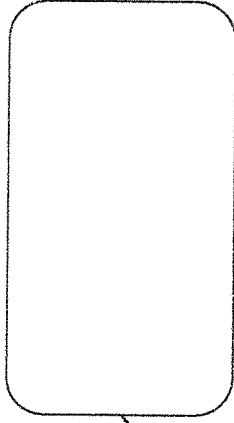


Matter Classification Quiz

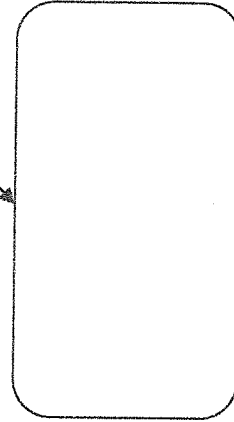
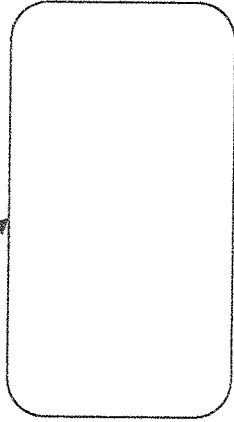
Fill in the empty rectangle with one item from each box. Each rectangle must contain a *label* and an *example or definition*.

- Labels:**
- Compound
 - Pure substance
 - Mixture
 - Matter
 - Solution

- Examples and definitions:**
- Water
 - Saltwater
 - Oil and water
 - Anything with mass that takes up space
 - One set of physical properties
 - Two or more types of matter together



Element



Heterogeneous

Matter Classification Worksheet

Classify the following as a pure substance or a mixture

Water (H₂O)

Air

Mercury

Gold

Aluminum foil

Sweet Tea

Sugar (C₆H₁₂O₆)

Potassium

Salt water

Classify the following as a heterogeneous mixture or a homogeneous mixture (solution)

Sand and salt mixture

Rusted iron roof

Salty water

Wood

Trail mix

Black coffee

An apple

Sugar water

Air

Classify the following as an element, a compound, a solution, or a heterogeneous mixture

Aluminum

Water (H₂O)

Carbon dioxide (CO₂)

Sulfur

Sugar water

Mercury

An orange

Water and instant coffee

Pencil

Pizza

Nitrogen

Air

Gasoline (C₂H₄OH)

Flat diet coke

Raisin bread

Physical and Chemical Change Story

Read the passage below, and make a list of any physical or chemical changes you notice in the story

Tony and May decided to give Nana, their grandmother, a treat for her birthday- the night off. So they made dinner. Tony took some frozen bread out of the freezer to thaw. Meanwhile, May made the cake. She beat the eggs and mixed them with sugar and flour. She put the cake in the oven to bake. Tony boiled water to make rice and chopped the vegetables. Then he melted butter in a pan and added the vegetables and let them cook until they turned golden brown. May, meanwhile, grilled chicken and mixed some orange drink by dissolving powdered concentrate into water. Nana liked coffee with dinner, so Tony ground coffee beans and heated water. Tony preferred milk, but when he looked in the fridge, he saw the milk had soured and curdled. Yuck!

When Nana came home from work, dinner was ready. Nana enjoyed her meal, though she did sneak an antacid tablet for her upset stomach!

Later, it was time for cake. May lit the candles. They burned for a whole minute before Nana could blow them out. There were dozens of them, after all!

Physical

Chemical